

## **METHOD OF RADIATION GENERATION AND MANIPULATION**

### **ABSTRACT OF THE DISCLOSURE**

A method of managing radiation having a frequency in the terahertz and/or microwave regions. The method comprises providing a semiconducting device having a two-dimensional carrier gas. Plasma waves are generated in the carrier gas using a laser pulse. The frequency of the plasma waves, and as a result, the generated radiation are adjusted using a voltage applied to the semiconducting device.